Tuesday, March 18, 2014 **[T630]**
POSTER SESSION: MARS GEOMORPHOLOGY: IMPACT CRATERS AND RELATED PROCESSES
6:00 p.m. Town Center Exhibit Area

Jones E. Osinski G. R. ***POSTER LOCATION #427***
Information on Subsurface Stratigraphy Derived from Martian Single and Double Layered Ejecta Craters **[#1008]**
We regionally examine martian single and double layered ejecta craters and present a regional model of subsurface layering that is consistent with observations.

Boyce J. M. Mouginis-Mark P. J. Tornabene L. L. ***POSTER LOCATION #428***
Morphology of Radial Grooves on the Inner Ejecta Layer of Martian Double Layered Ejecta Craters **[#1589]**
The morphometry of grooves on the inner layer of martian DLE craters suggests that they were produced by either high-speed granular flow or explosion surge.

Wulf G. Kenkmann T. ***POSTER LOCATION #429***
A New Phenomenological Ejecta Excavation and Emplacement Model for DLE Craters **[#1792]**
A new ejecta excavation and emplacement model for DLE craters is developed on the basis of morphological, morphometric, and hyperspectral analyses.

Weiss D. K. Head J. W. ***POSTER LOCATION #430***
Ejecta Mobility of Layered Ejecta Craters on Mars: Assessing the Influence of Surface Snow and Ice Deposits **[#1078]**
We test the idea that the morphologic differences between Pd, DLE, and LARLE craters may result from gradations in crater diameter and icy substrate thickness.

Miller M. K. Frey H. V. ***POSTER LOCATION #431***
Mapping Variations in Sediment Thickness in the Chryse Impact Basin Using Quasi-Circular Depressions from MOLA Data **[#1102]**
Quasi-circular depressions (QCDs) from MOLA data are used to show significant variations in likely sediment thickness within the Chryse Impact Basin.

Lucchetti A. Pozzobon R. Cremonese G. Massironi M. Rossi A. P. et al. ***POSTER LOCATION #432***
Filled Craters in Arabia Terra: Numerical Modelling Results from Firsoff Crater **[#1728]**
Analysis and numerical modeling of the Firsoff filled crater in Arabia Terra. Estimate of materials involved in erosional and depositional processes.

Matsubara Y. Irwin R. P. III Howard A. D. ***POSTER LOCATION #433***
Simulating Long-Term Noachian Mars Landform Evolution and Paleoclimate **[#2533]**
Little is known about the pre-valley network Noachian environment. The landform evolution model was used to constrain a possible long-term Noachian environment.

Mest S. C. Crown D. A. ***POSTER LOCATION #434***
Chronology of Hesperia Planum, Mars: New Constraints Using Impact Craters as Stratigraphic Markers **[#2793]**
Large (D > 15 km) impact craters in Hesperia Planum were mapped and superposed craters were measured to constrain relative ages and to develop a geochronology.